PRE-ALGEBRA PRACTICE TEST 2

Name Date					
Directions: Complete as many problems as you can in the 30 minutes allotted to you. No calculators! 1. Writes 3.75% as a reduced fraction.					
		(C) $\frac{1}{25}$	$(\mathbf{n})^{-1}$	(E) 1	
00	0	25	50	(E) $\frac{1}{32}$	
2. A shark that is $12\frac{1}{9}$ fee	et long is how much lon	nger than a shark that is	$8\frac{1}{8}$ feet long?		
(A) $3\frac{1}{72}$ feet	(B) $3\frac{17}{72}$ feet	(C) $3\frac{71}{72}$ feet	(D) $4\frac{1}{72}$ feet	(E) $4\frac{71}{72}$ feet	
3. Find the value of $\frac{(79)}{2}$	$\frac{7-8)+(781+8)+(118)}{4}$	$\frac{(9-400)+(589+200)}{(589+200)}.$			
(A) 787	(B) 787.5	(C) 788	(D) 788.5	(E) 789	
4. If a circle has a radius(A) 184 feet	of 368 feet, what is the (B) 736 feet	length of the diameter? (C) 738 feet	(D) 746 feet	(E) 748 feet	
5. Which set of fractions (A) $\frac{1}{6}, \frac{7}{48}, \frac{1}{7}$	e	from left to right ? (C) $\frac{1}{7}, \frac{7}{48}, \frac{1}{6}$	(D) $\frac{7}{48}, \frac{1}{7}, \frac{1}{6}$	(E) $\frac{7}{48}, \frac{1}{6}, \frac{1}{7}$	
6. Which has the largest s					
(A) $517\frac{4}{13} + 498\frac{5}{13}$	(B) $517\frac{2}{13} + 498\frac{9}{13}$	(C) $517\frac{5}{13} + 498\frac{5}{13}$	(D) $517\frac{2}{13} + 498\frac{6}{13}$	(E) $517\frac{1}{13} + 498\frac{11}{13}$	
7. After changing each m have the smallest numerat	-	roper fraction, which we	ould produce an improp	er fraction that would	
(A) $867\frac{14}{29}$	(B) $867\frac{15}{28}$	(C) $867\frac{16}{27}$	(D) $867\frac{17}{26}$	(E) $867\frac{18}{25}$	
8. If the price of gasoline			llon in 3 years, how mu	ich more would it cost	
to purchase 12.4 gallons c (A) \$1.76	(B) \$12.92	(C) \$13.02	(D) \$13.20	(E) \$130.20	
9. What fraction is equiva					
(A) $684\frac{3}{8}$	(B) $684\frac{5}{16}$	(C) $684\frac{7}{22}$	(D) $684\frac{9}{32}$	(E) $684\frac{21}{64}$	
10. After changing each improper fraction to a mixed number that contains a reduced proper fraction, which fraction will have the largest numerator?					
(A) $\frac{7653}{87}$	(B) $\frac{7655}{87}$	(C) $\frac{7657}{87}$	(D) $\frac{7659}{87}$	(E) $\frac{7661}{87}$	
11. If $\frac{1}{7}$ of the football team could not play due to being academically ineligible and another $\frac{1}{8}$ of the team could not					
play due to health reasons, what fraction of the team could still play?					
(A) $\frac{13}{15}$	(B) $\frac{15}{56}$	(C) $\frac{39}{56}$	(D) $\frac{41}{56}$	(E) $\frac{55}{56}$	
12. The trip is exactly 36(A) 11.6 miles	(B) 14.4 miles	(C) 21.6 miles	of it. How much of the (D) 22.4 miles	trip still remains?(E) 22.6 miles	
13. $\frac{r}{p} \div \frac{s}{q}$ is equivalent to which of the following?					
(A) $\frac{p}{r} \times \frac{s}{q}$	$(\mathbf{B}) \ \frac{p}{r} \div \frac{s}{q}$	(C) $\frac{r}{p} \times \frac{s}{q}$	(D) $\frac{r}{s} \times \frac{p}{q}$	(E) $\frac{r}{p} \times \frac{q}{s}$	

14. A pool that can hold 30,000 gallons of water when full is currently five-sixths full. If you add 2,000 gallons, what fraction of the pool remains empty?

(A) $\frac{1}{4}$ (**B**) $\frac{1}{2}$ (C) $\frac{1}{9}$ (D) $\frac{1}{10}$ (E) $\frac{9}{10}$

15. When writing 71,004 in expanded notation as $(7 \cdot 10,000) + (1 \cdot 1,000) + (a \cdot 100) + (b \cdot 10) + (4 \cdot 1)$, what is the value of $a+b+746\frac{137}{222}$? (**B**) $746\frac{137}{222}$ (**C**) $747\frac{137}{222}$ (**D**) $748\frac{137}{222}$ (**E**) $856\frac{137}{222}$ **(A)** 0

16. A runner came in second place with a time of 1 hour, 1 minute, and 24 seconds. If the first place runner finished 2 minutes and 37 seconds earlier, what was the time of the first place runner?

(A) 1hr. 4min. 1 sec. **(B)** 98min. 87sec. (C) 59 min. 47 sec. **(D)** 58min. 59sec. (E) 58 min. 47sec.

17. If the dimensions of one room are 12ft x 12ft x 8ft, and the dimensions of a second room are 18ft x 18ft x 24ft, what is the ratio of the volume of the second room to the volume of the first room?

(A)
$$\frac{4}{27}$$
 (B) $\frac{27}{4}$ (C) $\frac{27}{8}$ (D) $\frac{8}{27}$ (E) $\frac{27}{5}$

18. Twenty people ride the roller coaster every two minutes. How many minutes will it take for 1200 people to ride the roller coaster?

(**C**) 60 **(D)** 120 (A) 2 **(B)** 50 (E) 200

19. If it takes 8 minutes to walk home from school and you walk for 5 minutes 18 seconds, how many minutes do you have left to walk?

(A) $3\frac{7}{10}$ (B) $2\frac{4}{5}$ (C) $2\frac{21}{50}$ (D) $2\frac{41}{50}$ (E) 2	(C) $2\frac{21}{50}$ (D) $2\frac{41}{50}$	<u>/</u> 10	(C) $2\frac{21}{50}$ (D) $2\frac{41}{50}$
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20. Which has the smallest value?

(A)
$$\frac{1}{6}$$
 of 60 (B) $\frac{1}{4}$ of 44 (C) $\frac{1}{7}$ of 63 (D) $\frac{1}{5}$ of 55 (E) $\frac{1}{9}$ of 72

21. Which is the largest n	number?			
(A) -17.1	(B) −17.09	(C) −17.11	(D) −17.009	(E) −17.13

- 22. 800% of what number is 20? (A) 0.04 **(B)** 0.4 (C) 2.5**(D)** 25 **(E)** 160
- 23. Find the value of x expressed in $6(4+5) = x \cdot 4 + 6 \cdot y$. **(A)** 4 **(B)** 5 (**C**) 6 **(D)** 10

(B) 26

24. Solve 8(x-2) = 24. **(A)** 1 **(B)** 3 (C) 5 **(D)** 6 **(E)** 18 25. Simplify $4 + 2[3 + 2 \times 4]$. (A) 22

(C) 44

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(D) 66

(E) 24

(E) 120

1. A	2. C	3. E	4. B	5. C
6. E	7. E	8. C	9. A	10. B
11. D	12. C	13. E	14. D	15. B
16. E	17. B	18. D	19. E	20. E
21. D	22. C	23. C	24. C	25. B